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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,819	12/30/2005	Regis Houze	0600-1054	6555
466 YOUNG & TH	7590 03/03/201 IOMPSON	1	EXAM	IINER
209 Madison S	209 Madison Street		ABU ALI,	SHUANGYI
Suite 500 Alexandria, VA	\ 22314		ART UNIT	PAPER NUMBER
			1731	
			NOTIFICATION DATE	DELIVERY MODE
			03/03/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DocketingDept@young-thompson.com

Office Action Summary

Application No.	Applicant(s)	
10/562,819	HOUZE ET AL.	
Examiner	Art Unit	
SHUANGYI ABU ALI	1731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
 after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status	
1)🛛	Responsive to communication(s) filed on 12 February 2010.
2a)□	This action is FINAL . 2b)⊠ This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quavie, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)🛛	Claim(s) 34,35 and	<u>d 42</u> is/are pe	nding in the application.
	4a) Of the above cl	laim(s)	is/are withdrawn from consideration.
5)	Claim(s) is/	are allowed.	
6)🛛	Claim(s) 34,35 and	<u>d 42</u> is/are rej	ected.
7)	Claim(s) is/	are objected t	to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.			
10) The drawing(s) filed on	_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.		

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The path or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

a)∐ All	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No
3.□	Copies of the certified copies of the priority documents have been received in this National Stage

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

) Notice of References Cited (PTO-892) Notice of Draftspotson's Fatent Drawing Floviow (FTO-942)	Interview Summary (PTO-413) Paper No(sVMail Date.	
Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Patent Application	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/12/2010 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 34 - 35 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 01/96403 to Du Bourg et al.(the paragraph and line numbers of

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the English language equivalent U. S. Patent Application No. 2004/0112559 will be cited below.)

Regarding claims 34-35, Du Bourg et al. disclose a process of preparing a sizing composition for paper manufacture by providing a starch composition. The starch composition comprising a DM (dry mater) in the range of 5 - 65 % ([0060]), a fixed nitrogen level at a range of less than 2% ([0055]), and a pH up to about 10 ([0088]), Although Du Bourg et al. are silent about the viscosity measured by T method. the viscosity is determined by the constituents of the composition, the claimed the viscosity would be necessary follow from the teaching of Du Bourg et al. Du Bourg et al. disclose that the composition can be diluted by distilled water ([0058]) and this would clearly include any and all dilution rates as long as the defined additive is formed. In addition, depending on the viscosity of the additive for a specific application (i.e. paper making as defined by the reference), one skilled in the art would have found the optimal dilution rates through routine experimentation and optimization to obtain desired viscosity. The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages", In re Peterson 65 USPQ2d 1379 (CAFC 2003).Also, In re Geisler 43 USPQ2d 1365 (Fed. Cir. 1997); In re Woodruff, 16 USPQ2d 1934 (CCPA 1976); In re Malagari, 182 USPQ 549, 553 (CCPA 1974) and MPEP 2144.05. Du Bourg et al. further disclose that the starch composition can be mixed with alkenylsuccinic anhydride([0158]) .

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Regarding claim 42, Du Bourg et al. further disclose that the starch composition can be subjected to a high shearing treatment for at least 5 minute at a t least 20000 revolutions/minutes([0158]).

Response to Arguments

Applicant's arguments filed 02/12/2010 have been fully considered but they are not persuasive.

Applicant argues that the prior art fails to teach the viscosity of the starch.

The Examiner respectfully submits that the prior art discloses an overlapping range composition (a DM in the range of 5 - 65 %, a fixed nitrogen level at a range of less than 2%, and a pH up to about 10), and the viscosity of the composition will be necessary followed from the teaching of the prior art.

The applicant argues that the prior art fails to disclose an example having a range claimed by the instant application. The Examiner respectfully submits that while the reference does not provide a specific example which falls within the instant claims, it should be noted that "A reference can be used for all it realistically teaches and is not limited to the disclosures in its specific examples". See In re Van Marter et al 144 USPQ 421; In re Windmer et al 147 USPQ 518, 523; and In re Chapman et al 148 USPQ 711. Evidence of unexpected results must be commensurate in scope with the subject matter claimed. In re Linder 173 USPQ 356.

The applicant argues that unexpected result of the instant application. The Examiner respectfully submits that to establish unexpected results over a claimed Art Unit: 1731

range, applicants should compare a sufficient number of tests both inside and outside (i.e. as well as the upper and lower limits) the claimed range to show the criticality of the claimed range. For example, the claim 34 claimed that the diluted dry mater of the starch composition has a value in the range of 0.5-9%, however, composition A and B are only diluted to 4%.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHUANGYI ABU ALI whose telephone number is (571)272-6453. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Shuangyi Abu-Ali/ Examiner, Art Unit 1731